

WHAT IS CLAIMED IS:

1. A method of molding a ceramic sheet using a molding apparatus having an extruder of screw type and a mold arranged at the forward end portion of the extruder, wherein the ceramic material introduced into the extruder is molded into a sheet by extrusion from the mold, and wherein the mold with the ceramic material passing therethrough is divided into a plurality of transverse areas, for each of which the temperature is regulated in the process of extrusion molding.
2. A method for molding a ceramic sheet according to claim 1, in which the correlation data on the molding rate of ceramic sheet to be extrusion molded is obtained by measurement for the portion of the ceramic sheet corresponding to each area of the mold, and the temperature is regulated based on the correlation data on the molding rate thus obtained.
3. A method for molding a ceramic sheet according to claim 1, wherein the outer diameter d of the screw built in the extruder and the width W of the ceramic sheet hold the relation $W \geq 3d$.
4. A method for molding a ceramic sheet according to claim 1, wherein the outer diameter d of the screw built in the extruder and the width W of the ceramic sheet may hold the relation $W \geq 5d$.
5. A method for molding a ceramic sheet according to claim 1, wherein the outer diameter d of the screw built in the extruder is not more than 70 mm.
6. A method for molding a ceramic sheet according to claim 1, wherein the thickness of the ceramic sheet is not more than 1.5 mm.
7. A method for molding a ceramic sheet according to claim 1, wherein the thickness of the ceramic sheet is not more than 300 μm .
8. A method for molding a ceramic sheet according to claim 1, wherein the mold includes a plurality of

retractable rectification plates arranged to change the flow resistance of the ceramic material, the extrusion molding being carried out by regulating the flow resistance of the ceramic material by advancing and retracting said rectification plates while at the same time regulating the temperature of each of said areas.

9. An apparatus for molding a ceramic sheet, comprising a pair of screw type of extruders and a mold arranged at the forward end of one of said extruders for extrusion molding a ceramic material introduced into the extruders to form a ceramic sheet, wherein the mold includes means for regulating the temperature of the portion of the ceramic sheet corresponding to each one of the transverse areas into which the mold is divided.

10. An apparatus for molding a ceramic sheet according to claim 9, wherein the temperature regulation means includes a chamber associated with each of the areas into which the mold is transversely divided, and a heating medium circulation means included in each chamber for circulating a heating medium to heat or cool the material.

11. An apparatus for molding a ceramic sheet according to claim 9, wherein the temperature regulation means can include a heater controllable for each of the areas into which the mold is divided transversely.

12. An apparatus for molding a ceramic sheet according to claim 9, comprising a molding rate correlation data measuring means for measuring, for each corresponding area, the molding rate of the ceramic sheet extruded from the mold, and control means for controlling the temperature regulation means based on the molding rate correlation data acquired from the molding rate correlation data measuring means.

13. An apparatus for molding a ceramic sheet according to claim 9, wherein the outer diameter d of the screw built in each of the extruders and the width W of the ceramic sheet hold the relation $W \geq 3d$.

